

Results of Directional Survey

API number:	30-025-41136		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	RED HILLS WEST UNIT # 5H

surface	ULSTR:	D	10	T 26S	R 32E
				330 FNL	500 FWL

BH Loc	ULSTR:	D	03	T 26S	R 32E
15650	MD	10647.6	TVD	477 FNL	450 FWL
				4793 FSL	

Top Perf/OH	ULSTR:	D	10	T 26S	R 32E
11053	MD	10656.0	TVD	202 FSL	579 FWL

Bot Perf/OH	ULSTR:	D	03	T 26S	R 32E
15610	MD	10648.0	TVD	527 FNL	451 FWL
				4753 FSL	

	MD	N/S	E/W	VD
	11040	518.72	79.04	10656.82
TOP PERFS/OH	11053	531.68	78.50	10656.03
	11072	550.63	77.70	10654.87
	15450	4922.57	-47.22	10649.37
BOT PERFS/OH	15610	5082.55	-49.18	10647.97
	15650	5122.54	-49.67	10647.62

NEXT TO LAST	15450	4922.57	-47.22	10649.37
LAST READING	15650	5122.54	-49.67	10647.62
TD	15650	5122.54	-49.67	10647.62

Surface Location	330 FN	500 FW
Projected BHL	4793 FS	450 FW
Location of		
Top Perfs/OH	202 FS	579 FW
Bottom Perfs/OH	4753 FS	451 FW

SUMMARY of Subsurface Locations

Surface Location	D-10-26S-32E	330 FN	500 FW	Vert. Depth
Top Perfs/OH	D-10-26S-32E	202 FS	579 FW	10656.03
Bottom Perfs/OH	D-03-26S-32E	4753 FS	451 FW	10647.97
Projected TD	D-03-26S-32E	4793 FS	450 FW	10647.62

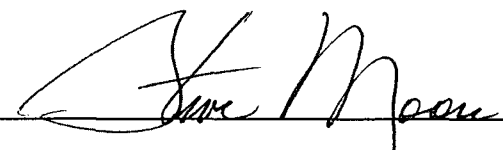
AUG 22 2013

OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE RED HILLS UNIT 005H
COUNTY LEA

036-0055

STATE OF NEW MEXICO
DEVIATION REPORT

269	1.00
595	2.11
1,017	3.76
1,229	4.10
2,682	0.60
3,098	1.20
3,286	2.90
3,376	2.90
3,414	3.70
3,510	4.25
3,605	3.70
3,699	2.40
3,878	2.90
3,984	3.10
4,080	4.40
4,142	4.90
4,332	4.50
4,750	2.60
5,383	1.30
5,669	0.60
6,016	0.70
6,396	1.00
7,188	1.10
7,505	0.90
7,916	1.00
8,327	1.00
9,323	1.83

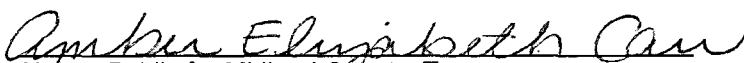
BY: 

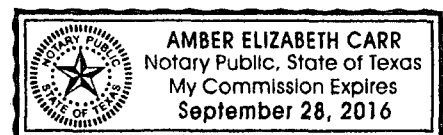
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on
Steve Moore on behalf of Patterson-UTi Drilling Company LLC.

7/9/13, by


Notary Public for Midland County, Texas
My Commission Expires:



Company: Mewbourne Oil Company
Lease/Well: Red Hills West Unit/ No. 005H

Rig Name: Patterson 36
State/County: New Mexico/Lea
Latitude: 32.06, Longitude: -103.67
GRID North is 0.35 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 22 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: red hills west unit #5h_01.ut

Minimum Curvature Method

Report Date/Time: 6/20/2013 / 10:33

Vaughn Energy Services

Midland, Texas

432-563-5444

Surveyor: Logan Henry

Red Hills West Unit No. 005H / API 30-025-41136

HOBBS OCD

AUG 20 2013

RECEIVED

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.23	12.76	100.00	0.20	0.04	0.20	0.20	12.76	0.23
200.00	0.06	20.38	200.00	0.44	0.11	0.44	0.46	13.57	0.18
300.00	0.45	64.97	300.00	0.65	0.48	0.65	0.81	36.22	0.41
400.00	0.96	104.20	399.99	0.61	1.65	0.61	1.76	69.56	0.68
500.00	1.72	125.71	499.96	-0.47	3.68	-0.47	3.71	97.22	0.90
600.00	2.70	127.32	599.89	-2.77	6.77	-2.77	7.32	112.25	0.99
700.00	3.29	135.98	699.75	-6.27	10.64	-6.27	12.35	120.49	0.74
800.00	3.68	150.05	799.57	-11.11	14.24	-11.11	18.07	127.96	0.94
900.00	3.94	157.67	899.35	-17.07	17.15	-17.07	24.20	134.87	0.57
1000.00	4.22	144.94	999.09	-23.27	20.57	-23.27	31.06	138.52	0.95
1100.00	4.15	144.57	1098.83	-29.23	24.79	-29.23	38.33	139.70	0.07
1200.00	4.12	147.20	1198.57	-35.20	28.83	-35.20	45.51	140.68	0.19
1300.00	3.99	147.01	1298.32	-41.14	32.68	-41.14	52.54	141.54	0.13
1400.00	3.38	148.58	1398.11	-46.58	36.11	-46.58	58.93	142.22	0.62
1500.00	2.96	148.15	1497.96	-51.28	39.00	-51.28	64.43	142.74	0.42
1600.00	2.81	150.39	1597.83	-55.61	41.58	-55.61	69.43	143.21	0.18
1700.00	2.39	150.35	1697.73	-59.55	43.82	-59.55	73.93	143.65	0.42
1800.00	2.10	154.50	1797.65	-63.01	45.64	-63.01	77.80	144.08	0.33

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
9700.00	2.83	243.65	9692.90	-142.18	113.34	-142.18	181.83	141.44	0.58
9800.00	2.32	244.31	9792.80	-144.15	109.31	-144.15	180.91	142.83	0.52
9855.00	2.49	245.70	9847.75	-145.13	107.22	-145.13	180.44	143.54	0.33

Mewbourne Oil Company

Red Hills West Unit #005H

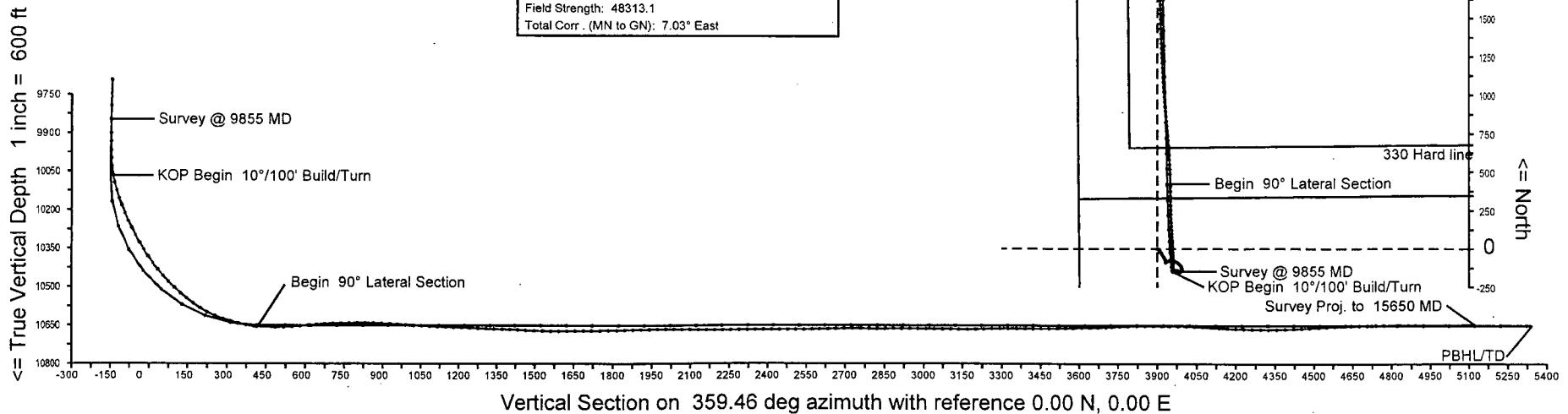
Lea County, New Mexico

WELL PROFILE DATA rev1									
MD	Inc.	Azi.	TVD	N-S	E-W	DLS	Comment	06-14-2013	
9855	2.49	245.70	9848	-145	107	0.00	Survey @ 9855 MD		
10076	2.49	245.70	10069	-149	99	0.00	KOP Begin 10°/100' Build/Turn		
10986	90.00	358.69	10651	423	62	10.00	Begin 90° Lateral Section		
15908	90.00	358.69	10651	5344	-50	0.00	PBHL/TD		

WELL PROFILE DATA svys									
MD	Inc.	Azi.	TVD	N-S	E-W	DLS	Comment	08-01-2013	
15650	90.50	359.30	10648	5123	-50	0.00	Survey Proj. to 15650 MD		

rolfson oil

Surface Location	NAD27 NM East
Lat: N 32° 03' 50.21"	Long: W 103° 40' 09.63"
x: 705692.949	y: 387621.710
Model IGRF2011	Date: 31-May-2013
Declination (MN to TN): 7.38° East	
Dip: 59.97	
Field Strength: 48313.1	
Total Corr. (MN to GN): 7.03° East	



Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company

Well: Red Hills West Unit #005H

Location: Lea County, New Mexico

SHL: Sect10-26S-32E BHL: Sect3-26S-21E

Date: 1-Aug-2013

Surveys

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Job#: 7360

MD Inclination Azimuth TVD RKB

(feet) (degrees) (degrees) (feet)

N-S
(feet)

E-W
(feet)

DLS
(deg/100')

VS @ 359.46° Az
(feet)

Grid Y

NAD27 NM East gr elev=3251 RKB=3271

Grid X

Comments

Surface Location										
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	387621.71	705692.95	330 FNL 500 FWL Sect10
100.00	0.23	12.76	100.00	0.20	0.04	0.23	0.20	387621.91	705692.99	Gyro
200.00	0.06	20.38	200.00	0.44	0.11	0.17	0.44	387622.15	705693.06	
300.00	0.45	64.97	300.00	0.66	0.48	0.41	0.65	387622.37	705693.43	
400.00	0.96	104.20	399.99	0.62	1.65	0.67	0.60	387622.33	705694.60	
500.00	1.72	125.71	499.96	-0.47	3.68	0.90	-0.50	387621.24	705696.63	
600.00	2.70	127.32	599.89	-2.77	6.77	0.98	-2.83	387618.94	705699.72	
700.00	3.29	135.98	699.75	-6.26	10.64	0.74	-6.36	387615.45	705703.59	
800.00	3.68	150.05	799.57	-11.10	14.23	0.94	-11.24	387610.61	705707.18	
900.00	3.94	157.67	899.35	-17.06	17.14	0.57	-17.22	387604.65	705710.09	
1000.00	4.22	144.94	999.10	-23.25	20.56	0.95	-23.45	387598.46	705713.51	
1100.00	4.15	144.57	1098.83	-29.21	24.77	0.08	-29.45	387592.50	705717.72	
1200.00	4.12	147.20	1198.57	-35.18	28.82	0.19	-35.45	387586.53	705721.77	
1300.00	3.99	147.01	1298.32	-41.12	32.66	0.13	-41.42	387580.59	705725.61	
1400.00	3.38	148.58	1398.11	-46.55	36.09	0.62	-46.89	387575.16	705729.04	
1500.00	2.96	148.15	1497.96	-51.26	38.99	0.42	-51.63	387570.45	705731.94	
1600.00	2.81	150.39	1597.83	-55.59	41.56	0.19	-55.97	387566.12	705734.51	
1700.00	2.39	150.35	1697.73	-59.53	43.80	0.42	-59.94	387562.18	705736.75	
1800.00	2.10	154.50	1797.65	-62.99	45.62	0.33	-63.42	387558.72	705738.57	
1900.00	2.01	150.81	1897.59	-66.18	47.27	0.16	-66.62	387555.53	705740.22	
2000.00	2.00	155.02	1997.53	-69.29	48.86	0.15	-69.75	387552.42	705741.81	
2100.00	1.81	162.69	2097.47	-72.38	50.07	0.32	-72.85	387549.33	705743.02	
2200.00	1.75	170.87	2197.42	-75.40	50.78	0.26	-75.87	387546.31	705743.73	
2300.00	1.93	165.68	2297.37	-78.54	51.44	0.25	-79.02	387543.17	705744.39	
2400.00	1.91	166.25	2397.32	-81.79	52.25	0.03	-82.28	387539.92	705745.20	
2500.00	1.87	169.50	2497.26	-85.01	52.94	0.11	-85.50	387536.70	705745.89	
2600.00	1.06	182.87	2597.23	-87.54	53.19	0.87	-88.04	387534.17	705746.14	
2700.00	0.31	224.96	2697.22	-88.65	52.96	0.86	-89.15	387533.06	705745.91	
2800.00	0.45	261.43	2797.22	-88.90	52.38	0.27	-89.39	387532.81	705745.33	
2900.00	0.50	276.18	2897.21	-88.91	51.56	0.13	-89.40	387532.80	705744.51	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company

Well: Red Hills West Unit #005H

Location: Lea County, New Mexico

SHL: Sect10-26S-32E BHL: Sect3-26S-21E

Date: 1-Aug-2013

Surveys

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Job#: 7360

MD	Inclination	Azimuth	TVD RKB	N-S	E-W	DLS	VS @ 359.46° Az	Grid Y	Grid X	Comments
(feet)	(degrees)	(degrees)	(feet)	(feet)	(feet)	(deg/100')	(feet)			
3000.00	0.27	354.17	2997.21	-88.63	51.10	0.52	-89.11	387533.08	705744.05	
3100.00	0.97	58.29	3097.21	-87.95	51.79	0.89	-88.44	387533.76	705744.74	
3200.00	1.97	58.86	3197.17	-86.62	53.99	1.00	-87.12	387535.09	705746.94	
3300.00	2.74	70.10	3297.09	-84.92	57.70	0.89	-85.46	387536.79	705750.65	
3400.00	3.14	66.69	3396.96	-83.02	62.47	0.44	-83.61	387538.69	705755.42	
3500.00	3.53	67.88	3496.79	-80.78	67.83	0.40	-81.41	387540.93	705760.78	
3600.00	3.34	68.07	3596.61	-78.53	73.39	0.19	-79.22	387543.18	705766.34	
3700.00	2.73	67.16	3696.47	-76.52	78.28	0.61	-77.25	387545.19	705771.23	
3800.00	2.74	68.76	3796.35	-74.73	82.71	0.08	-75.50	387546.98	705775.66	
3900.00	2.84	82.69	3896.24	-73.55	87.39	0.68	-74.37	387548.16	705780.34	
4000.00	3.46	95.07	3996.08	-73.50	92.86	0.92	-74.37	387548.21	705785.81	
4100.00	3.15	111.13	4095.92	-74.75	98.42	0.97	-75.68	387546.96	705791.37	
4200.00	4.12	114.66	4195.72	-77.24	104.25	1.00	-78.22	387544.47	705797.20	
4300.00	5.11	114.67	4295.39	-80.60	111.56	0.99	-81.65	387541.11	705804.51	
4400.00	5.00	120.27	4395.00	-84.66	119.37	0.51	-85.78	387537.05	705812.32	
4500.00	4.02	121.25	4494.69	-88.67	126.13	0.98	-89.86	387533.04	705819.08	
4600.00	3.08	126.14	4594.50	-92.08	131.30	0.99	-93.31	387529.63	705824.25	
4700.00	3.06	132.52	4694.36	-95.46	135.44	0.34	-96.74	387526.25	705828.39	
4800.00	2.46	133.99	4794.24	-98.76	138.95	0.60	-100.06	387522.95	705831.90	
4900.00	2.17	142.01	4894.16	-101.74	141.66	0.43	-103.07	387519.97	705834.61	
5000.00	1.64	148.22	4994.10	-104.45	143.58	0.57	-105.80	387517.26	705836.53	
5100.00	1.64	132.84	5094.06	-106.64	145.38	0.44	-108.00	387515.07	705838.33	
5200.00	1.39	135.58	5194.03	-108.48	147.28	0.26	-109.86	387513.23	705840.23	
5300.00	1.52	138.93	5294.00	-110.34	149.00	0.16	-111.74	387511.37	705841.95	
5400.00	1.22	153.61	5393.97	-112.30	150.34	0.46	-113.71	387509.41	705843.29	
5500.00	1.00	158.37	5493.95	-114.06	151.14	0.24	-115.48	387507.65	705844.09	
5600.00	0.51	163.15	5593.94	-115.30	151.59	0.49	-116.72	387506.41	705844.54	
5700.00	0.95	165.34	5693.93	-116.53	151.93	0.44	-117.95	387505.18	705844.88	
5800.00	0.56	167.94	5793.92	-117.81	152.24	0.39	-119.24	387503.90	705845.19	
5900.00	0.82	159.21	5893.92	-118.95	152.60	0.28	-120.39	387502.76	705845.55	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company

Well: Red Hills West Unit #005H

Location: Lea County, New Mexico

SHL: Sect10-26S-32E BHL: Sect3-26S-21E

Date: 1-Aug-2013

Surveys

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Job#: 7360

RKB=3271

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 359.46° Az (feet)	Grid Y	NAD27 NM East gr elev=3251 Grid X	Comments
6000.00	0.89	153.80	5993.90	-120.32	153.19	0.11	-121.76	387501.39	705846.14	
6100.00	0.89	144.20	6093.89	-121.65	153.99	0.15	-123.09	387500.06	705846.94	
6200.00	0.62	140.62	6193.88	-122.70	154.79	0.27	-124.15	387499.01	705847.74	
6300.00	0.83	140.40	6293.88	-123.67	155.59	0.21	-125.13	387498.04	705848.54	
6400.00	0.77	142.76	6393.87	-124.76	156.46	0.07	-126.23	387496.95	705849.41	
6500.00	0.67	157.89	6493.86	-125.84	157.09	0.21	-127.32	387495.87	705850.04	
6600.00	0.57	161.62	6593.85	-126.85	157.46	0.11	-128.33	387494.86	705850.41	
6700.00	0.54	181.45	6693.85	-127.80	157.61	0.19	-129.28	387493.91	705850.56	
6800.00	0.30	193.62	6793.85	-128.52	157.54	0.25	-130.00	387493.19	705850.49	
6900.00	0.42	200.96	6893.84	-129.12	157.34	0.13	-130.60	387492.59	705850.29	
7000.00	0.79	181.46	6993.84	-130.15	157.19	0.42	-131.63	387491.56	705850.14	
7100.00	0.64	179.21	7093.83	-131.40	157.18	0.15	-132.87	387490.31	705850.13	
7200.00	0.79	184.28	7193.82	-132.64	157.14	0.16	-134.12	387489.07	705850.09	
7300.00	1.08	193.90	7293.81	-134.25	156.86	0.33	-135.72	387487.46	705849.81	
7400.00	0.63	197.58	7393.80	-135.69	156.47	0.45	-137.15	387486.02	705849.42	
7500.00	0.94	219.22	7493.79	-136.85	155.79	0.42	-138.31	387484.86	705848.74	
7600.00	0.61	209.61	7593.78	-137.94	155.00	0.35	-139.40	387483.77	705847.95	
7700.00	1.07	207.28	7693.77	-139.24	154.31	0.46	-140.68	387482.47	705847.26	
7800.00	0.89	199.84	7793.75	-140.80	153.62	0.22	-142.24	387480.91	705846.57	
7900.00	0.76	197.19	7893.74	-142.16	153.16	0.14	-143.60	387479.55	705846.11	
8000.00	1.01	202.61	7993.73	-143.61	152.63	0.26	-145.04	387478.10	705845.58	
8100.00	0.58	197.69	8093.72	-144.90	152.13	0.43	-146.33	387476.81	705845.08	
8200.00	1.19	193.90	8193.71	-146.39	151.73	0.61	-147.82	387475.32	705844.68	
8300.00	0.80	203.39	8293.69	-148.04	151.20	0.42	-149.46	387473.67	705844.15	
8400.00	0.95	244.05	8393.68	-149.05	150.18	0.62	-150.46	387472.66	705843.13	
8500.00	1.32	249.36	8493.66	-149.82	148.36	0.38	-151.21	387471.89	705841.31	
8600.00	1.16	270.25	8593.64	-150.22	146.27	0.48	-151.59	387471.49	705839.22	
8700.00	1.16	282.74	8693.62	-149.99	144.27	0.25	-151.34	387471.72	705837.22	
8800.00	1.59	285.27	8793.59	-149.40	141.94	0.43	-150.73	387472.31	705834.89	
8900.00	0.84	291.99	8893.57	-148.76	139.93	0.76	-150.07	387472.95	705832.88	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company

Well: Red Hills West Unit #005H

Location: Lea County, New Mexico

SHL: Sect10-26S-32E BHL: Sect3-26S-21E

Date: 1-Aug-2013

Surveys

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Job#: 7360

MD	Inclination	Azimuth	TVD RKB	N-S	E-W	DLS	VS @ 359.46° Az	Grid Y	Grid X	Comments
(feet)	(degrees)	(degrees)	(feet)	(feet)	(feet)	(deg/100')	(feet)			
9000.00	1.28	318.40	8993.55	-147.65	138.50	0.65	-148.95	387474.06	705831.45	
9100.00	1.79	332.78	9093.51	-145.43	137.05	0.64	-146.71	387476.28	705830.00	
9200.00	1.97	318.32	9193.46	-142.75	135.19	0.51	-144.02	387478.96	705828.14	
9300.00	1.83	288.59	9293.41	-140.96	132.53	0.98	-142.20	387480.75	705825.48	
9400.00	2.82	286.56	9393.33	-139.75	128.66	0.99	-140.96	387481.96	705821.61	
9500.00	3.05	268.33	9493.20	-139.13	123.65	0.96	-140.29	387482.58	705816.60	
9600.00	3.26	251.00	9593.05	-140.13	118.30	0.97	-141.24	387481.58	705811.25	
9700.00	2.83	243.65	9692.91	-142.15	113.40	0.58	-143.21	387479.56	705806.35	
9800.00	2.32	244.31	9792.80	-144.13	109.36	0.51	-145.15	387477.58	705802.31	
9855.00	2.49	245.70	9847.76	-145.10	107.27	0.33	-146.10	387476.61	705800.22	
9908.00	2.30	279.10	9900.71	-145.41	105.17	2.62	-146.39	387476.30	705798.12	MWD surveys
9940.00	2.10	280.40	9932.69	-145.20	103.96	0.64	-146.17	387476.51	705796.91	
9976.00	2.10	279.10	9968.66	-144.97	102.66	0.13	-145.94	387476.74	705795.61	
10007.00	2.50	303.00	9999.64	-144.52	101.53	3.32	-145.47	387477.19	705794.48	
10039.00	4.80	346.70	10031.58	-142.83	100.64	10.79	-143.78	387478.88	705793.59	
10071.00	9.20	359.60	10063.33	-138.97	100.31	14.52	-139.91	387482.74	705793.26	
10103.00	13.90	359.40	10094.68	-132.56	100.25	14.69	-133.50	387489.15	705793.20	
10134.00	17.50	359.60	10124.52	-124.18	100.18	11.61	-125.12	387497.53	705793.13	
10166.00	19.40	359.00	10154.87	-114.05	100.06	5.97	-114.99	387507.66	705793.01	
10197.00	20.70	359.70	10183.99	-103.43	99.94	4.26	-104.36	387518.28	705792.89	
10229.00	22.40	359.50	10213.75	-91.67	99.85	5.32	-92.61	387530.04	705792.80	
10261.00	24.50	358.30	10243.11	-78.94	99.60	6.73	-79.88	387542.77	705792.55	
10293.00	26.90	359.00	10271.94	-65.07	99.28	7.56	-66.00	387556.64	705792.23	
10324.00	28.30	359.40	10299.41	-50.71	99.08	4.56	-51.64	387571.00	705792.03	
10356.00	29.00	358.20	10327.49	-35.37	98.76	2.83	-36.30	387586.34	705791.71	
10388.00	30.80	356.00	10355.23	-19.44	97.94	6.59	-20.37	387602.27	705790.89	
10420.00	34.10	355.80	10382.23	-2.32	96.71	10.32	-3.23	387619.39	705789.66	
10452.00	36.60	356.80	10408.33	16.15	95.52	8.02	15.25	387637.86	705788.47	
10483.00	38.30	358.10	10432.94	34.98	94.69	6.05	34.09	387656.69	705787.64	
10515.00	41.10	358.20	10457.56	55.41	94.03	8.75	54.52	387677.12	705786.98	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company

Well: Red Hills West Unit #005H

Location: Lea County, New Mexico

SHL: Sect10-26S-32E BHL: Sect3-26S-21E

Date: 1-Aug-2013

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Job# : 7360

MD	Inclination	Azimuth	TVD RKB	N-S	E-W	DLS	VS @ 359.46° Az	Grid Y	NAD27 NM East gr elev=3251 RKB=3271	Comments
(feet)	(degrees)	(degrees)	(feet)	(feet)	(feet)	(deg/100')	(feet)		Grid X	
10546.00	44.40	358.20	10480.32	76.44	93.37	10.65	75.56	387698.15	705786.32	
10578.00	46.90	357.20	10502.69	99.30	92.45	8.13	98.43	387721.01	705785.40	
10611.00	48.70	355.70	10524.86	123.70	90.93	6.41	122.84	387745.41	705783.88	
10642.00	51.10	355.70	10544.82	147.35	89.15	7.74	146.50	387769.06	705782.10	
10674.00	53.40	356.90	10564.41	172.59	87.52	7.77	171.76	387794.30	705780.47	
10706.00	56.70	357.70	10582.74	198.79	86.29	10.51	197.97	387820.50	705779.24	
10738.00	61.00	358.70	10599.29	226.15	85.44	13.70	225.34	387847.86	705778.39	
10770.00	66.10	359.30	10613.54	254.79	84.94	16.03	253.98	387876.50	705777.89	
10802.00	71.20	358.70	10625.19	284.58	84.42	16.03	283.77	387906.29	705777.37	
10833.00	74.20	358.40	10634.40	314.16	83.67	9.72	313.36	387935.87	705776.62	
10864.00	76.50	359.50	10642.24	344.15	83.12	8.17	343.35	387965.86	705776.07	
10896.00	78.70	0.10	10649.11	375.40	83.01	7.11	374.60	387997.11	705775.96	
10927.00	82.50	359.10	10654.18	405.98	82.80	12.66	405.18	388027.69	705775.75	
10936.00	84.00	358.90	10655.23	414.91	82.64	16.81	414.12	388036.62	705775.59	
11008.00	91.60	357.50	10658.00	486.77	80.38	10.73	485.99	388108.48	705773.33	
11040.00	92.60	357.70	10656.82	518.72	79.04	3.19	517.95	388140.43	705771.99	
11072.00	94.40	357.50	10654.87	550.63	77.70	5.66	549.87	388172.34	705770.65	
11103.00	94.50	356.90	10652.47	581.50	76.19	1.96	580.76	388203.21	705769.14	
11135.00	94.90	356.70	10649.84	613.34	74.41	1.40	612.61	388235.05	705767.36	
11167.00	94.50	356.10	10647.22	645.17	72.41	2.25	644.46	388266.88	705765.36	
11198.00	93.80	355.20	10644.98	676.00	70.07	3.67	675.31	388297.71	705763.02	
11230.00	92.00	355.30	10643.36	707.85	67.42	5.63	707.18	388329.56	705760.37	
11260.00	91.00	355.80	10642.57	737.75	65.09	3.73	737.10	388359.46	705758.04	
11293.00	91.40	355.30	10641.88	770.64	62.53	1.94	770.02	388392.35	705755.48	
11325.00	90.50	355.30	10641.35	802.53	59.91	2.81	801.93	388424.24	705752.86	
11356.00	89.80	354.90	10641.27	833.42	57.26	2.60	832.84	388455.13	705750.21	
11388.00	88.50	354.80	10641.75	865.28	54.39	4.07	864.73	388486.99	705747.34	
11420.00	86.70	354.80	10643.09	897.12	51.49	5.62	896.60	388518.83	705744.44	
11452.00	86.20	355.10	10645.07	928.94	48.68	1.82	928.44	388550.65	705741.63	
11483.00	86.40	356.00	10647.07	959.78	46.28	2.97	959.30	388581.49	705739.23	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company

Well: Red Hills West Unit #005H

Location: Lea County, New Mexico

SHL: Sect10-26S-32E BHL: Sect3-26S-21E

Date: 1-Aug-2013

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Job#: 7360

MD Inclination Azimuth TVD-RKB N-S E-W DLS VS @ 359.46° Az NAD27 NM East gr elev=3251 RKB=3271

(feet)	(degrees)	(degrees)	(feet)	(feet)	(feet)	(deg/100')	(feet)	Grid Y	Grid X	Comments
11515.00	86.80	356.20	10648.97	991.65	44.11	1.40	991.19	388613.36	705737.06	
11547.00	87.30	356.20	10650.61	1023.53	41.99	1.56	1023.09	388645.24	705734.94	
11579.00	86.90	356.70	10652.23	1055.43	40.01	2.00	1055.01	388677.14	705732.96	
11610.00	87.10	356.80	10653.85	1086.34	38.26	0.72	1085.93	388708.05	705731.21	
11642.00	87.70	356.90	10655.31	1118.26	36.50	1.90	1117.86	388739.97	705729.45	
11674.00	88.20	356.90	10656.45	1150.19	34.77	1.56	1149.81	388771.90	705727.72	
11706.00	87.80	356.50	10657.57	1182.12	32.93	1.77	1181.76	388803.83	705725.88	
11737.00	87.30	356.70	10658.89	1213.04	31.09	1.74	1212.69	388834.75	705724.04	
11769.00	87.90	356.70	10660.23	1244.95	29.25	1.87	1244.62	388866.66	705722.20	
11801.00	87.20	357.60	10661.60	1276.88	27.66	3.56	1276.57	388898.59	705720.61	
11832.00	87.30	357.80	10663.09	1307.82	26.42	0.72	1307.52	388929.53	705719.37	
11864.00	88.10	357.60	10664.37	1339.77	25.14	2.58	1339.48	388961.48	705718.09	
11896.00	88.60	357.20	10665.29	1371.73	23.69	2.00	1371.44	388993.44	705716.64	
11927.00	87.40	358.30	10666.37	1402.68	22.47	5.25	1402.41	389024.39	705715.42	
11959.00	86.70	358.80	10668.02	1434.63	21.66	2.69	1434.36	389056.34	705714.61	
11991.00	87.20	358.50	10669.72	1466.57	20.91	1.82	1466.31	389088.28	705713.86	
12023.00	87.50	358.60	10671.20	1498.53	20.10	0.99	1498.27	389120.24	705713.05	
12055.00	88.10	358.40	10672.43	1530.50	19.26	1.98	1530.25	389152.21	705712.21	
12087.00	89.40	358.40	10673.13	1562.47	18.37	4.06	1562.23	389184.18	705711.32	
12118.00	90.50	358.50	10673.16	1593.46	17.53	3.56	1593.23	389215.17	705710.48	
12150.00	91.10	358.20	10672.71	1625.45	16.61	2.10	1625.22	389247.16	705709.56	
12182.00	91.10	359.10	10672.10	1657.43	15.86	2.81	1657.21	389279.14	705708.81	
12214.00	90.70	359.10	10671.59	1689.42	15.35	1.25	1689.20	389311.13	705708.30	
12245.00	90.00	359.00	10671.40	1720.42	14.84	2.28	1720.20	389342.13	705707.79	
12277.00	90.30	358.90	10671.32	1752.41	14.25	0.99	1752.20	389374.12	705707.20	
12308.00	91.00	358.90	10670.97	1783.40	13.66	2.26	1783.20	389405.11	705706.61	
12340.00	91.80	358.80	10670.19	1815.39	13.02	2.52	1815.19	389437.10	705705.97	
12371.00	91.70	358.90	10669.24	1846.37	12.39	0.46	1846.17	389468.08	705705.34	
12403.00	92.30	359.30	10668.12	1878.34	11.89	2.25	1878.15	389500.05	705704.84	
12435.00	91.00	359.60	10667.20	1910.33	11.58	4.17	1910.13	389532.04	705704.53	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company

Well: Red Hills West Unit #005H

Location: Lea County, New Mexico

SHL: Sect10-26S-32E BHL: Sect3-26S-21E

Date: 1-Aug-2013

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Job# : 7360

MD	Inclination	Azimuth	TVD RKB	N-S	E-W	DLS	VS @ 359.46° Az	Grid Y	Grid X	Comments
(feet)	(degrees)	(degrees)	(feet)	(feet)	(feet)	(deg/100')	(feet)			
13411.00	90.80	355.40	10663.50	2885.26	-14.95	2.69	2885.27	390506.97	705678.00	
13442.00	90.20	355.30	10663.23	2916.16	-17.46	1.96	2916.19	390537.87	705675.49	
13473.00	89.40	356.10	10663.34	2947.07	-19.79	3.65	2947.12	390568.78	705673.16	
13504.00	89.10	356.10	10663.75	2977.99	-21.90	0.97	2978.07	390599.70	705671.05	
13536.00	89.50	356.50	10664.14	3009.92	-23.96	1.77	3010.02	390631.63	705668.99	
13567.00	89.40	357.50	10664.44	3040.88	-25.58	3.24	3040.99	390662.59	705667.37	
13599.00	89.70	357.70	10664.69	3072.85	-26.92	1.13	3072.97	390694.56	705666.03	
13631.00	89.40	358.90	10664.94	3104.83	-27.87	3.87	3104.96	390726.54	705665.08	
13662.00	89.20	0.50	10665.32	3135.83	-28.03	5.20	3135.96	390757.54	705664.92	
13694.00	89.90	0.50	10665.57	3167.83	-27.76	2.19	3167.95	390789.54	705665.19	
13725.00	91.00	0.10	10665.33	3198.83	-27.59	3.78	3198.94	390820.54	705665.36	
13757.00	92.20	359.60	10664.43	3230.81	-27.68	4.06	3230.93	390852.52	705665.27	
13789.00	91.60	0.10	10663.37	3262.80	-27.76	2.44	3262.91	390884.51	705665.19	
13820.00	90.50	1.50	10662.80	3293.79	-27.33	5.74	3293.90	390915.50	705665.62	
13852.00	89.40	1.10	10662.83	3325.78	-26.60	3.66	3325.88	390947.49	705666.35	
13884.00	89.50	0.50	10663.14	3357.77	-26.16	1.90	3357.87	390979.48	705666.79	
13916.00	89.50	0.10	10663.42	3389.77	-25.99	1.25	3389.86	391011.48	705666.96	
13947.00	89.90	359.60	10663.58	3420.77	-26.07	2.07	3420.86	391042.48	705666.88	
13978.00	90.40	359.20	10663.50	3451.77	-26.39	2.07	3451.86	391073.48	705666.56	
14010.00	91.00	359.40	10663.11	3483.76	-26.78	1.98	3483.86	391105.47	705666.17	
14041.00	91.50	359.20	10662.43	3514.75	-27.16	1.74	3514.85	391136.46	705665.79	
14073.00	92.40	359.00	10661.34	3546.73	-27.67	2.88	3546.83	391168.44	705665.28	
14104.00	91.80	358.70	10660.21	3577.70	-28.29	2.16	3577.81	391199.41	705664.66	
14136.00	90.50	358.20	10659.56	3609.68	-29.15	4.35	3609.80	391231.39	705663.80	
14167.00	90.50	358.30	10659.29	3640.67	-30.10	0.32	3640.79	391262.38	705662.85	
14199.00	91.80	358.00	10658.65	3672.64	-31.13	4.17	3672.77	391294.35	705661.82	
14231.00	92.70	357.80	10657.40	3704.60	-32.30	2.88	3704.74	391326.31	705660.65	
14253.00	92.60	358.00	10656.38	3726.56	-33.11	1.02	3726.71	391348.27	705659.84	
14284.00	92.80	357.80	10654.92	3757.50	-34.24	0.91	3757.66	391379.21	705658.71	
14316.00	92.50	358.80	10653.44	3789.46	-35.19	3.26	3789.62	391411.17	705657.76	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company

Well: Red Hills West Unit #005H

Location: Lea County, New Mexico

SHL: Sect10-26S-32E BHL: Sect3-26S-21E

Date: 1-Aug-2013

Surveys

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Job# : 7360

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 359.46° Az (feet)	Grid Y	NAD27 NM East gr elev=3251 RKB=3271 Grid X	Comments
14347.00	91.10	0.30	10652.46	3820.44	-35.43	6.62	3820.60	391442.15	705657.52	
14378.00	90.50	359.80	10652.03	3851.43	-35.41	2.52	3851.60	391473.14	705657.54	
14410.00	89.70	0.30	10651.98	3883.43	-35.38	2.95	3883.60	391505.14	705657.57	
14442.00	89.30	0.30	10652.25	3915.43	-35.21	1.25	3915.59	391537.14	705657.74	
14473.00	89.70	359.90	10652.53	3946.43	-35.16	1.82	3946.59	391568.14	705657.79	
14505.00	89.90	359.50	10652.64	3978.43	-35.33	1.40	3978.59	391600.14	705657.62	
14537.00	88.70	359.90	10653.03	4010.43	-35.49	3.95	4010.58	391632.14	705657.46	
14568.00	87.20	1.10	10654.14	4041.40	-35.22	6.19	4041.56	391663.11	705657.73	
14599.00	86.40	1.20	10655.87	4072.35	-34.60	2.60	4072.49	391694.06	705658.35	
14631.00	86.80	0.90	10657.77	4104.29	-34.02	1.56	4104.43	391726.00	705658.93	
14663.00	86.60	0.30	10659.61	4136.23	-33.68	1.97	4136.37	391757.94	705659.27	
14695.00	87.20	0.00	10661.34	4168.19	-33.60	2.10	4168.32	391789.90	705659.35	
14726.00	87.40	359.60	10662.80	4199.15	-33.71	1.44	4199.28	391820.86	705659.24	
14757.00	88.00	359.20	10664.04	4230.12	-34.03	2.33	4230.26	391851.83	705658.92	
14789.00	88.90	358.90	10664.91	4262.11	-34.56	2.96	4262.24	391883.82	705658.39	
14821.00	88.70	358.70	10665.58	4294.09	-35.23	0.88	4294.23	391915.80	705657.72	
14852.00	89.40	358.60	10666.09	4325.08	-35.96	2.28	4325.23	391946.79	705656.99	
14883.00	91.10	358.80	10665.96	4356.07	-36.66	5.52	4356.22	391977.78	705656.29	
14915.00	92.40	358.80	10664.98	4388.05	-37.33	4.06	4388.21	392009.76	705655.62	
14947.00	92.90	358.70	10663.50	4420.01	-38.03	1.59	4420.17	392041.72	705654.92	
14978.00	93.50	358.60	10661.77	4450.95	-38.76	1.96	4451.12	392072.66	705654.19	
15009.00	93.70	358.00	10659.82	4481.87	-39.68	2.04	4482.05	392103.58	705653.27	
15046.00	93.30	358.00	10657.56	4518.78	-40.97	1.08	4518.97	392140.49	705651.98	
15077.00	92.90	358.50	10655.89	4549.72	-41.91	2.06	4549.92	392171.43	705651.04	
15108.00	92.70	358.90	10654.37	4580.68	-42.62	1.44	4580.88	392202.39	705650.33	
15139.00	92.30	358.80	10653.02	4611.64	-43.24	1.33	4611.84	392233.35	705649.71	
15171.00	91.60	358.90	10651.93	4643.62	-43.88	2.21	4643.82	392265.33	705649.07	
15202.00	91.10	359.20	10651.20	4674.60	-44.39	1.88	4674.81	392296.31	705648.56	
15234.00	91.00	359.20	10650.62	4706.60	-44.84	0.31	4706.81	392328.31	705648.11	
15266.00	91.30	358.90	10649.97	4738.58	-45.37	1.33	4738.80	392360.29	705647.58	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company

Well: Red Hills West Unit #005H

Location: Lea County, New Mexico

SHL: Sect10-26S-32E BHL: Sect3-26S-21E

Date: 1-Aug-2013

Surveys

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Job# : 7360

MD Inclinatio Azimuth TVD RKB

(feet)	(degrees)	(degrees)	(feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 359.46° Az (feet)	Grid Y	Grid X	Comments
15297.00	90.80	359.40	10649.41	4769.58	-45.83	2.28	4769.80	392391.29	705647.12	
15348.00	89.80	359.60	10649.14	4820.57	-46.27	2.00	4820.79	392442.28	705646.68	
15360.00	89.50	359.60	10649.21	4832.57	-46.36	2.50	4832.79	392454.28	705646.59	
15391.00	89.80	359.50	10649.40	4863.57	-46.60	1.02	4863.79	392485.28	705646.35	
15419.00	89.90	359.40	10649.47	4891.57	-46.87	0.51	4891.79	392513.28	705646.08	
15450.00	90.50	359.30	10649.37	4922.57	-47.22	1.96	4922.79	392544.28	705645.73	
15650.00	90.50	359.30	10647.62	5122.54	-49.67	0.00	5122.78	392744.25	705643.28	Survey projected

NAD27 NM East gr elev=3251 RKB=3271